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INDEX TO AMERICAN BOTANICAL LITERATURE

1913-1914

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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- Atkinson, G. F.** The development of *Agaricus arvensis* and *A. comtulus*. Am. Jour. Bot. **1**: 3-22. *pl.* 1, 2. F 1914.
- Allard, H. A.** The mosaic disease of tobacco. U. S. Dept. Agr. Bull. 40: 1-33. *pl.* 1-7. 15 Ja 1914.
- Bartholomew, E. T.** Concerning the presence of diastase in certain red algae. Bot. Gaz. **57**: 136-147. 14 F 1914.
- Bartlett, H. H.** Systematic studies on *Oenothera*—IV. *Oe. franciscana* and *Oe. venusta*, spp. nov. Rhodora **16**: 33-37. *pl.* 107, 108. 2 F 1914.
- Berry, E. W.** Fossil plants in the Panama Canal Zone. Science II. **39**: 357. 6 Mr 1914.
- Blake, S. F.** Six weeks' botanizing in Vermont—III. Notes on the plants of Swanton and vicinity. Rhodora **16**: 38-41. 2 F 1914.
- Boldingh, I.** The flora of the Dutch West Indian Islands. II. The flora of Curaçao, Aruba and Bonaire. i-xiv + 1-197. *pl.* 1-10. Leyden. 1914.
- Britton, E. G.** Notes on nomenclature—XII. Bryologist **17**: 7-10. Ja 1914.
- Britton, E. G.** West Indian mosses—I. Bull. Torrey Club **40**: 653-676. *pl.* 25. 8 Ja 1914.

- Britton, E. G., & Williams, R. S.** Central American mosses. *Torreyia* 14: 24-31. f. 1. 9 F 1914.

Includes *Macromitrium palmense* R. S. Williams, sp. nov. and *Isodrepanium* E. G. Britton, gen. nov.

- Britton, N. L.** Studies of West Indian plants—V. *Bull. Torrey Club* 41: 1-24. 26 F 1914.

Includes twenty-six new species in *Rhynchospora* (1) *Pithecolobium* (7), *Dendropanax* (1), *Bourreria* (3), *Aster* (2), *Lasiocroton* (1), *Varronia* (1), *Jacobinia* (1), *Copernicia* (2), *Anneslia* (1), *Belairia* (1), *Meibomia* (1), *Kieseria* (1) and *Portlandia* (3).

- Broadhurst, J.** Winter changes in weeping willow. *Torreyia* 14: 31, 32. 9 F 1914.

- Bussler, F. H.** Anzucht aus Samen. *Monats. Kakteenk.* 24: 10, 11. 15 Ja 1914.

- Castle, W. E.** The cytological time of mutation in tobacco. *Science* 11. 39: 140. 23 Ja 1914.

- Cockerell, T. D. A.** A new *Helianthus* from Colorado. *Proc. Biol. Soc. Washington* 27: 5-8. 2 F 1914.

Helianthus coloradensis sp. nov.

- Collins, F. S.** Drifting algae. *Rhodora* 16: 1-5. 2 Ja 1914.

- Collins, G. N.** A drought-resisting adaptation in seedlings of Hopi maize. *Jour. Agr. Research* 1: 293-302. pl. 29-32 + f. 1-2. 10 Ja 1914.

- Craib, W. G.** *Erythrina pulcherrima*. *Curt. Bot. Mag.* IV. 10: pl. 8532. Ja 1914.

A plant from South America?

- Davidson, A.** The oldest known tree. *Bull. S. California Acad. Sci.* 13: 14-16. Ja 1914.

- Dudgeon, W.** A method of handling material to be imbedded in paraffine. *Bot. Gaz.* 57: 70-72. f. 1. 16 Ja 1914.

- Eames, E. H.** *Scirpus occidentalis* and *Aster ptarmicoides* in Connecticut. *Rhodora* 16: 19, 20. 2 Ja 1914.

- East, F. M., & Hayes, H. K.** A genetic analysis of the changes produced by selection in experiments with tobacco. *Am. Nat.* 48: 5-48. f. 1-9. Ja 1914.

- Elkins, M. G.** The maturation phases in *Smilax herbacea*. *Bot. Gaz.* 57: 32-52. pl. 4-6. 16 Ja 1914.

- Fernald, M. L.** The alpine bearberries and the generic status of *Arctous*. *Rhodora* 16: 21-33. F 1914.

- Fernald, M. L.** The North American representative of *Arenaria ciliata*. *Rhodora* 16: 43, 44. 2 F 1914.

Arenaria cylindrocarpa sp. nov.

- Fernald, M. L., & Long, B.** The American variations of *Potentilla palustris*. *Rhodora* 16: 5-11. *pl.* 106. 2 Ja 1914.
- Fraser, W. P.** Notes on *Uredinopsis mirabilis* and other rusts. *Mycologia* 6: 25-28. 14 Ja 1914.
- Gailey, P. L.** Effect of CS₂ and toluol upon nitrification. *Centralb. Bakt. Zweite Abt.* 39: 584-595. 6 Ja 1914.
- Gates, R. R.** On the apparent absence of apogamy in *Oenothera*. *Science* II. 39: 37, 38. 2 Ja 1914.
- Gies, W. J.** The digestion of vegetable foods. *Jour. N. Y. Bot. Gar.* 15: 5-9. Ja 1914.
- Gortner, R. A., & Harris, J. A.** On axial abscission in *Impatiens Sultani* as the result of traumatic stimuli. *Am. Jour. Bot.* 1: 48-50. F 1914.
- Griffiths, D.** New species of *Opuntia*. *Proc. Biol. Soc. Washington* 27: 23-28. 2 F 1914.
Includes descriptions of ten new species.
- Griggs, R. F.** Observations on the behavior of some species at the edges of their ranges. *Bull. Torrey Club* 41: 25-49. *f.* 1-6. 26 F 1914.
- Harper, E. T.** *Cantharellus clavatus* from Duluth. *Mycologia* 6: 40, 41. 14 Ja 1914.
- Harper, R. A., & Dodge, B. O.** The formation of the capillitium in certain *Myxomycetes*. *Ann. Bot.* 28: 1-18. *pl.* 1, 2. Ja 1914.
- Harris, J. A.** Current progress in the study of natural selection. *Pop. Sci. Mo.* 84: 128-146. *f.* 1-4. F 1914.
- Harris, J. A.** On differential mortality with respect to seed weight occurring in field cultures of *Pisum sativum*. *Am. Nat.* 48: 83-86. F 1914.
- Hasselbring, H.** The relation between the transpiration stream and the absorption of salts. *Bot. Gaz.* 57: 72, 73. 16 Ja 1914.
- Hayes, H. K., & Beinhart, E. G.** The cytological time of mutation in tobacco. *Science* II. 39: 284. 20 F 1914.
- Hayes, H. K., & Beinhart, E. G.** Mutation in tobacco. *Science* II. 39: 34, 35. 2 Ja 1914.
- Heald, F. D.** Aerial galls of the mesquite. *Mycologia* 6: 37, 38. *pl.* 117, *f.* 2. 14 Ja 1914.
- Henry, J. K.** A new form of *Pyrola bracteata*. *Torreyia* 14: 32. 9 F 1914. *Pyrola bracteata* var. *Hillii* var. nov.
- Henry, J. K.** *Salix Hookeriana* Barratt. *Ottawa Nat.* 27: 155, 156. F 1914.

- House, H. D.** Vegetation of the Coos Bay region, Oregon. *Mu¹lenbergia* 9: 81-100. 10 Ja 1914.
Includes description of *Vancouveria brevicaule* Greene, sp. nov.
- House, H. D.** Violets new to southeastern Virginia. *Toireya* 14: 2-4. f. 1. 27 Ja 1914.
Includes *Viola emarginata* × *septemloba* hybd. nov.
- Howe, R. H.** North American species of the genus *Ramalina*—III. *Bryologist* 17: 1-7. pl. 1, 2 + f. 1, 2. Ja 1914.
- Howitt, J. E.** Notes on the apothecial stage of *Sclerotinia cinerea* in Ontario. *Ottawa Nat.* 27: 158-160. F 1914.
- Hutchinson, A. H.** The male gametophyte of *Abies*. *Bot. Gaz.* 57: 148-153. f. 1-15. 14 F 1914.
- Hutchinson, J.** *Rondeletia cordata*. *Curt. Bot. Mag.* IV. 10: pl. 8450. F 1914.
- Ingram, D. E.** A twig blight of *Quercus Prinus* and related species. *Jour. Agr. Research* 1: 339-346. pl. 38 + f. 1-7. 10 Ja 1914.
- Jepson, W. L.** Platanaceae to Portulacaceae (*Calyptridium*). In *Jepson, W. L., A flora of California*. 1: 369-464. f. 66-91. San Francisco. 1914.
- Johnson, D. S.** The evolution of a botanical problem. *Science* II. 39: 299-319. 27 F 1914.
- Jolivette, H. D. M.** Studies on the reactions of *Pilobolus* to light stimuli. *Bot. Gaz.* 57: 89-121. f. 1-12. 14 F 1914.
- Kearney, T. H., and others.** Indicator significance of vegetation in Tooele Valley, Utah. *Jour. Agr. Research* 1: 365-417. pl. 42-48 + f. 1-13. 16 F 1914.
- Knowlton, C. H.** Flora of the Sandy River Valley in Maine. *Rhodora* 16: 11-17. 2 Ja 1914.
- Krieger, L. C. C.** Observations on the use of Ridgway's new color-book. The color of the spores of *Volvaria speciosa* Fr. *Mycologia* 6: 29-31. 14 Ja 1914.
- Kunkel, L. O.** Nuclear behavior in the promycelia of *Caeoma nitens* Burrill and *Puccinia Peckiana* Howe. *Am. Jour. Bot.* 1: 37-47. pl. 3. F 1914.
- Long, W. H.** An undescribed species of *Gymnosporangium* from Japan. *Jour. Agr. Research* 1: 353-356. 10 Ja 1914.
Gymnosporangium chinensis[e] sp. nov.
- Maneval, W. E.** The development of *Magnolia* and *Liriodendron*, including a discussion of the primitiveness of the Magnoliaceae. *Bot. Gaz.* 57: 1-31. pl. 1-3. 16 Ja 1914.

- Maxon, W. R.** Studies of tropical American ferns—No. 5. Contr. U. S. Nat. Herb. **17**: 391-425. *pl.* 11-23 + *f.* 8-10. 21 Ja 1914.
Includes new species in *Oleandra* (6), *Polypodium* (6), *Psilogramme* (1), *Hemitelia* (1), *Lycopodium* (2), and *Marattia* (2).
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- Meyer, R.** Einiges über *Echinocactus pilosus* Gal. Monats. Kakteenk. **24**: 12. 15 Ja 1914.
- Mottier, D. M.** Mitosis in the pollen mother-cells of *Acer Negundo* L., and *Staphylea trifolia* L. Ann. Bot. **28**: 115-133. *pl.* 9, 10. Ja 1914.
- Murdock, J., Jr.** *Orontium* in Barnstable County, Massachusetts. Rhodora **16**: 18, 19. 2 Ja 1914.
- Murrill, W. A.** Illustrations of fungi—XVII. Mycologia **6**: 1-4. *pl.* 113. 14 Ja 1914.
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- Niles, C. G.** The North American Cypripediums. Gard. Chron. Am. **17**: 813-815. F 1914. [Illust.]
- Oosthuizen, J., P., & Shedd, O. M.** The effect of ferments and other substances on the growth of Burley tobacco. Jour. Biol. Chem. **16**: 439-453. Ja 1914.
- Orton, W. A.** Potato wilt, leaf-roll, and related diseases. U. S. Dept. Agr. Bull. **64**: 1-48. *pl.* 1-16. 10 F 1914.
- Parish, S. B.** The tecate cypress. Bull. S. California Acad. Sci. **13**: 11-13. Ja 1914.
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- Quehl, L.** Über Anweisungen zur Zucht und Pflege der Kakteen. Monats. Kakteenk. **24**: 7, 8. 15 Ja 1914.
- Radlkofer, L.** New Sapindaceae from Panama and Costa Rica. Smithsonian Mis. Col. **62**²⁴: 1-8. 9 F 1914.
Includes *Dipterodendron* gen. nov., and new species in *Serjania* (1), *Paullinia* (2), *Talisia* (1) and *Dipterodendron* (2).
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- Reed, H. S., Cooley, J. S., & Crabill, C. H.** Experiments on the control of the cedar rust of apples. Virginia Agr. Exp. Sta. Bull. **203**: 3-28. *f.* 1-11. Ja 1914.
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- Rydberg, P. A.** Phytogeographical notes on the Rocky Mountain region—I. Alpine region. Bull. Torrey Club **40**: 677-686. 6 Ja 1914.
- Sackett, W. G.** The nitrifying efficiency of certain Colorado soils. Colorado Agr. Exp. Sta. Bull. **193**: 3-43. Ja 1914.
- Seaver, F. J.** A preliminary study of the genus *Lamprospora*. Mycologia **6**: 5-24. pl. 114. 14 Ja 1914.
Includes *Lamprospora ascoboloides*, *L. annulata*, *L. spinulosa*, *L. Maireana*, *L. tuberculatella*, spp. nov.
- Seaver, F. J., & Murrill, W. A.** Notes on truffles recently collected in the eastern United States. Jour. N. Y. Bot. Gard. **15**: 14, 15. Ja 1914.
- Sherff, E. E.** Evaporation conditions at Skokie Marsh. Plant World **16**: 154-160. f. 1-4. My 1913.
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- Smyth, B. B., & Smyth, L. C. R.** Provisional catalogue of the flora of Kansas. Part II.—gymnosperms and monocotyls. Trans. Kansas Acad. Sci. **26**: 63-128. 1913.
- Standley, P. C.** Studies of tropical American Phanerogams—No. 1. Contr. U. S. Nat. Herb. **17**: 427-458. pl. 24-31. 30 Ja 1914.
Includes descriptions of thirty-two new species.
- Standley, P. C.** Two additions to the flora of Louisiana. Torreyia **14**: 21-24. 9 F 1914.
- Stewart, A.** A simple apparatus for illustrating photosynthesis. Science II. **39**: 67. 9 Ja 1914.
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- Stuchlik, J.** Zur Synonymik der Gattung *Gomphrena*. IV. Repert. Sp. Nov. 12: 516-524. 15 D 1913.
Includes several new subspecies, varieties, and subvarieties.
- Sumstine, D. R.** New or interesting fungi. Mycologia 6: 32-36. *pl.* 115-117. 14 Ja 1914.
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- Swingle, W. T., & Kellerman, M.** *Citropsis*, a new tropical African genus allied to *Citrus*. Jour. Agr. Research 1: 419-436. *pl.* 49 + *f.* 1-7. 16 F 1914.
- Taubenhaus, J. J.** The why's in plant disease control. Gard. Chron. Am. 17: 819-821. F 1914.
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- Theissen, F.** Über einige Mikrothyriaceen. Ann. Myc. 11: 493-511. *pl.* 21 + *f.* 1-7. 31 D 1913.
Includes *Chaetothyrium Rickianum*, *Thallochaete Ingae*, *Hysterostoma myrtorum*, and *Lembosia modesta*, spp. nov., and *Amazonia*, *Thallochaete*, *Myxomyriangium*, and *Hysterostoma*, gen. nov.
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- Wagner, E.** Allerlei Beobachtungen und Ansichten. Monats. Kakteenk. 24: 3, 4. 15 Ja 1914.
- Weingart, W.** Weiteres über *Cereus Hirschtianus* K. Schum. Monats. Kakteenk. 23: 148, 151, 152. 15 O 1913.
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- Wolf, F. A.** Another host for *Rhodochytrium*. Phytopathology **3**: 309. D 1913.
- Wolf, F. A.** Control of apple black-rot. Phytopathology **3**: 288, 289. D 1913.
- Wolf, F. A.** Some of the diseases of potatoes and cabbage. Proc. Alabama State Hort. Soc. **10**: 27-31. 1913.
- Woodward, R. W.** On variation in *Arenaria lateriflora*. Rhodora **15**: 209, 210. 13 D 1913.
- Wright, C. H.** *Morenia corallina*. Curt. Bot. Mag. IV. **9**: pl. 8527. D 1913.
- Wright, C. H.** *Smilacina paniculata*. Curt. Bot. Mag. IV. **10**: pl. 8539. F 1914.
- Young, W. J.** Some abnormalities in apple variation. Pop. Sci. Mo. **84**: 158-165. F 1914. [Illust.]